

November 12, 1993

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SUPERFUND REMEDIAL BRANCH

Mr. Mike Kuntz Washington State Department of Ecology P.O. Box 47600, Olympia, WA 98504-7600

RE:

COLBERT LANDFILL RD/RA MONTHLY PROGRESS REPORT OCTOBER 1993



Dear Mr. Kuntz:

Presented herein is the Progress Report for the Colbert Landfill Remedial Design/Remedial Action Superfund Project (Project) for the month of October 1993, which was prepared by Landau Associates, Inc., Spokane County's engineering consultant. This progress report addresses the reporting requirements specified in Section XI of the Project Consent Decree, including:

- Remedial action activities commenced or completed during the reporting period
- Remedial action activities projected to be commenced or completed through November 1993
- Any problems that were encountered or are anticipated.

1.0 ACTIVITIES COMMENCED/COMPLETED DURING REPORTING PERIOD

Construction by the contractor, Humphrey Construction, Inc. (Humphrey), of the Remedial Action (RA) continued. Landau Associates was onsite, continuously, to observe construction of RA facilities. Approximately 4400 lineal feet of groundwater conveyance pipeline from the south groundwater interception system toward the centralized treatment facility was constructed; this represents approximately 30 percent of the conveyance piping to be installed under this construction contract. Eight of the ten groundwater well vaults were installed. The treatment facility site was rough graded. Reinforced concrete footings and perimeter foundations for the treatment facility building were constructed. Subsurface groundwater conveyance, process drain, potable water and sanitary drain piping within the treatment facility was constructed. The subsurface electrical grounding system was installed at the treatment Approximately 90 percent of the major equipment and productsubmittals for the groundwater extraction systems and treatment facility have been received, processed, and returned to the Contractor. The project is estimated to be 16 days behind schedule, due to delays associated with obtaining the building permit, and delays from protracted lead times for construction materials and equipment associated with delayed submittal by Humphrey. Humphrey has been requested to increase construction manpower and equipment at the site to get the project back on schedule before the onset of severe winter weather conditions.

- Shop drawings and product submittals for the air stripping treatment equipment were submitted by the contractor, Ershigs, Inc. (Ershigs), and reviewed and processed by Landau Associates. The air stripper tower shell and anchor bolts were released for fabrication. Submittals for 75 percent of the air stripping equipment were received, processed, and returned to Ershigs. Delivery of the air stripping treatment equipment to the project site is contractually on schedule.
- Field and laboratory audit reports for the May/June groundwater sampling activities were submitted to EPA and Ecology.
- The final technical memorandum, prepared by Landau Associates, describing changes to the South and West Interception Systems and East Extraction System that have occurred as the result of property access limitations and conditions encountered during Phase II well construction was forwarded to EPA and Ecology by Spokane County.
- Water quality sampling for the Little Spokane River was completed for the year ending October 31, 1993, in response to Bonnie Rose's (Ecology) July 12, 1993 focus sheet on NPDES issues. Samples were collected bi-monthly (i.e. approximately every two weeks) from July through October 1993 from four locations between the mouth of the river and about 1 mile upstream of the Phase II outfall. All samples are being analyzed for total phosphorus, and one sample (at the outfall) is being analyzed for algal growth potential. Results will provide background data to compare against river water quality during Phase II operation, and will be forwarded to Ecology after sampling and analyses are completed for the last October sampling event.

2.0 ACTIVITIES/PROJECTS TO BE COMMENCED/COMPLETED DURING THE NEXT REPORTING PERIOD

Progress reports will be submitted monthly until construction is complete, as prescribed in the project Consent Decree; consequently, the next reporting period will extend through November 30, 1993. Anticipated activities for November include:

Continuing remedial action construction. Anticipated construction activities include:

- Construction of conveyance piping
- Installation of extraction well vaults
- Construction of treatment facility foundations, floor slabs, subsurface piping, underground electrical, and other components.
- Submitting applications for Federal Communication Commission licenses for the radio telemetry system transmission equipment, which is an essential component of the integrated control system for the groundwater extraction systems and treatment facility.
- Continuing fabrication of the air stripping treatment equipment. Some of the
 ancillary process equipment for the air stripping system will be delivered to
 the site. Manufacture of the anchor bolts for the air stripper will be completed
 and the finished product will be delivered to the site during the first week of
 November. Remaining product and equipment submittals will be received
 and reviewed.
- Preparing a letter addressing EPA and Ecology comments on the final treatment and discharge plan (by late November).
- Submitting report presenting results of algal growth potential study of the planned treated groundwater receiving water (i.e. Little Spokane River). The report will be submitted to EPA and Ecology for consideration in establishing the conditions for the National Pollutant Discharge Elimination System (NPDES) permit (by mid December).
- Preparing and submitting a report evaluating the feasibility of hydroelectric energy recovery from the treated groundwater discharge.
- Preparing the Operation and Maintenance Manual for the Remedial Action facility.

3.0 ENCOUNTERED/ANTICIPATED PROBLEMS

Last month's projection for early delivery of the air stripping tower to the site has slipped to approximately the first week in January 1994, which is the originally scheduled contract delivery date. The onset of colder than normal temperatures and winter weather in general could slow or impair construction progress during the next reporting period, particularly if snow begins to accumulate. Construction is progressing and is anticipated to be complete by February 1994. System start-up will probably require 1 to 2 months following completion of construction, and it is anticipated that the remedial action will be fully operational by April or May 1994.

This report describes progress on only the primary Project remedial action activities. There are peripheral activities associated with the primary activities which are not described herein. If clarification is required for any of the activities presented in this progress report, or

if additional information is desired for peripheral activities, please contact Landau Associates or Dean Fowler (Spokane County).

LANDAU ASSOCIATES, INC.

Bv:

John A. Markus, P.E. Project Manager

JAM/bb

No. 124002.120

CC:

Neil Thompson, U.S. EPA

Dean Fowler, Spokane County

Lyle Diedieker, Ecology & Environment, Inc.